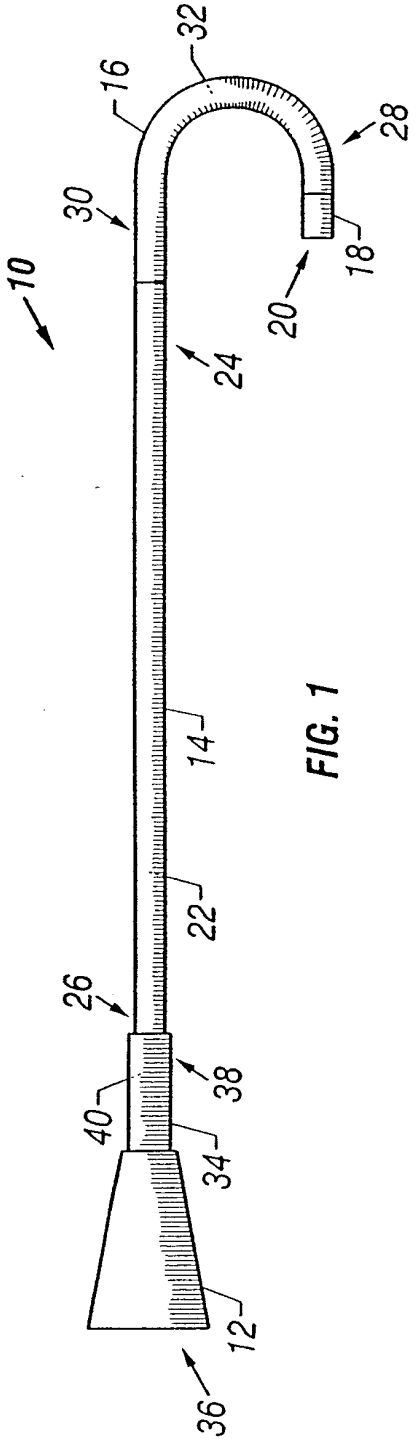
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FIG. 1

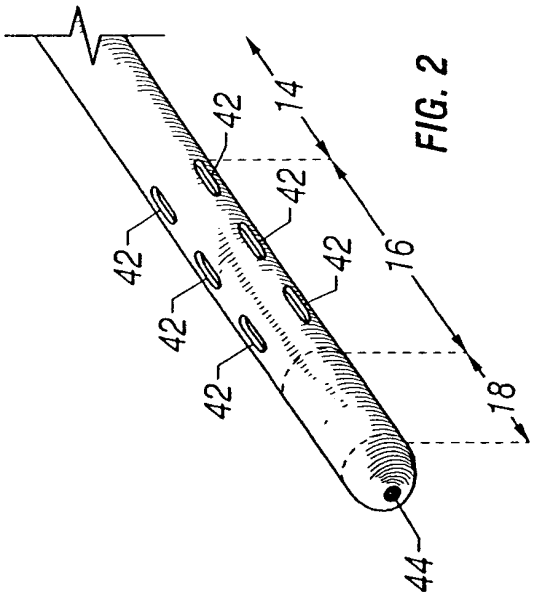
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FIG. 2

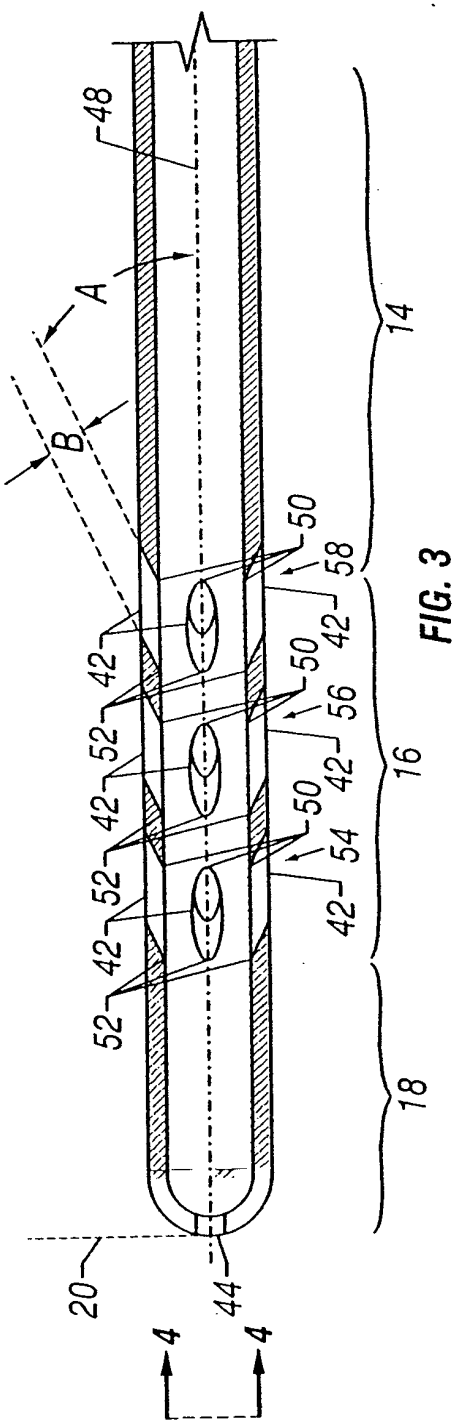

FIG. 3

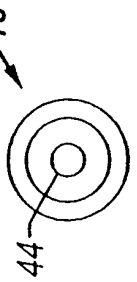

FIG. 4

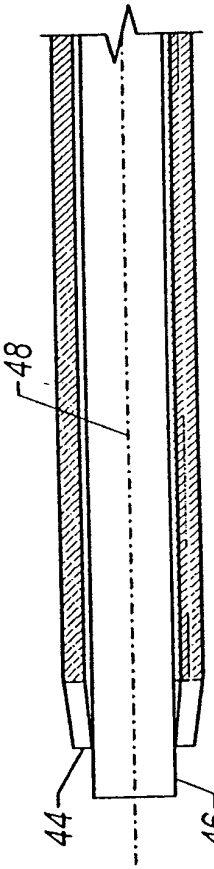

FIG. 5

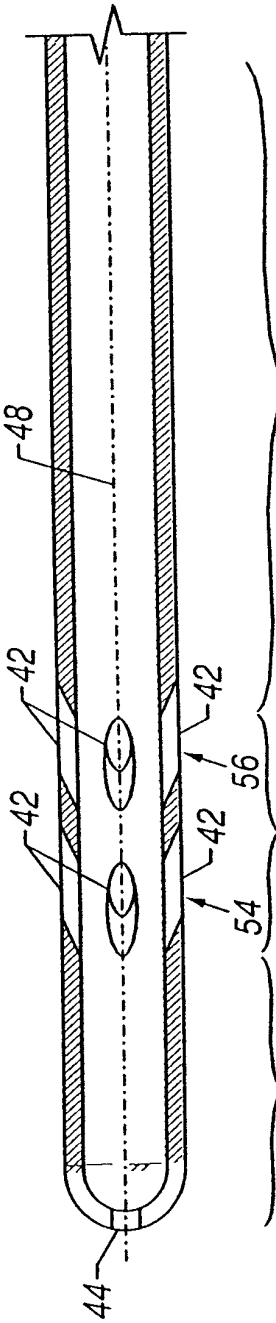

FIG. 6

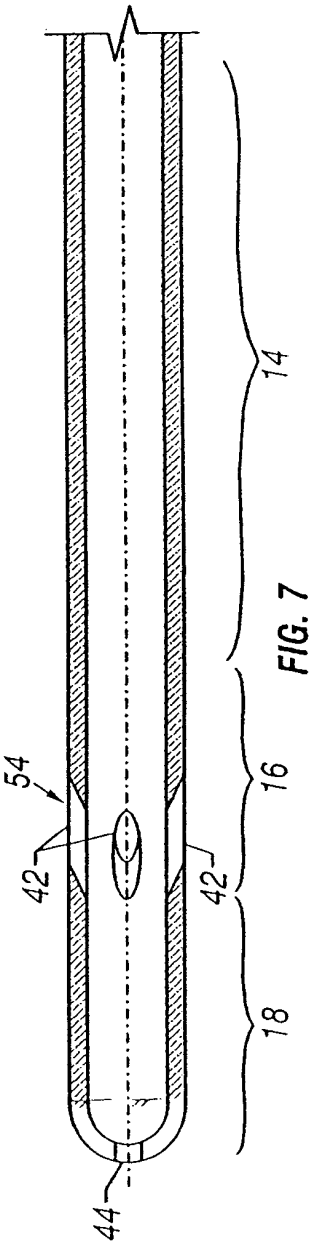

FIG. 7

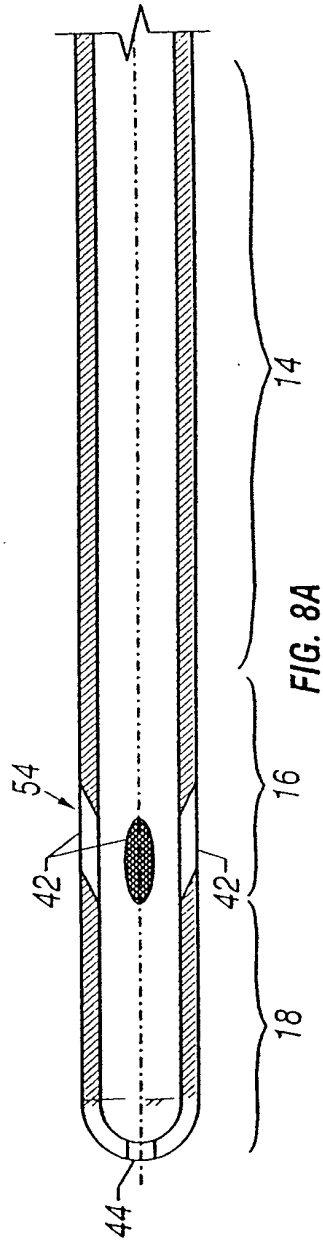

FIG. 8A

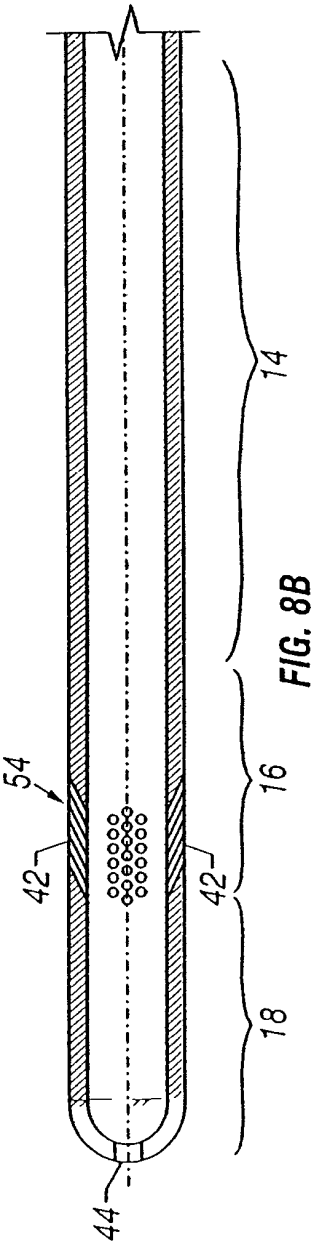

FIG. 8B

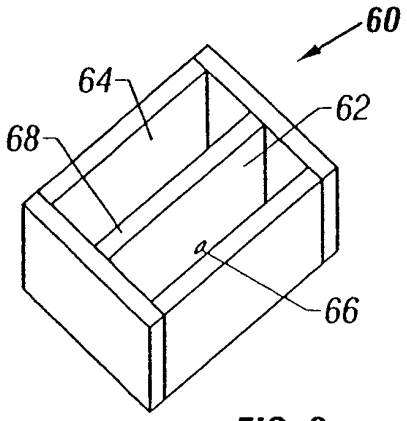

FIG. 9

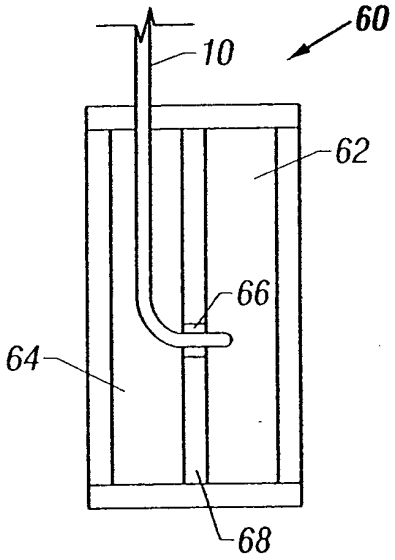

FIG. 10

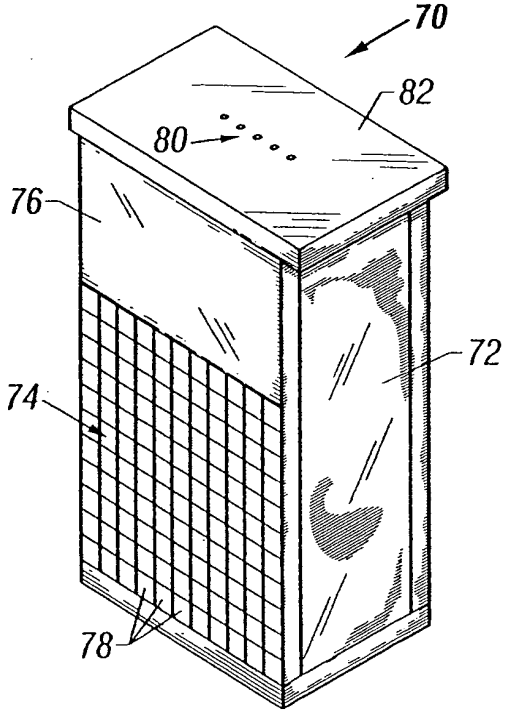

FIG. 11

Catheter			Slot Configuration				Restrictor		Flow Parameters		Reaction		
Test #	Diameter (Fr)	Material	Type	Geometry (mm)	#	Location (mm)	Material	Diameter (mm)	Volume (ml)	Rate (ml/sec)	Recoil Direction	Recoil Amount (mm)	Lateral Whipping (mm)
1	4	Hard	Angled Holes 30°	0.254	8	1.27 3.175	Soft	.305	10	2	Forward	5.08	5.08
2	4	Hard	Angled Holes 30°	0.254	8	1.27 3.175	Soft	.305	10	4	Forward	8.89	3.81
3	4	Hard	Angled Holes 30°	0.254	8	1.27 3.175	Soft	.305	10	6	Forward	15.24	15.24
4 Cordis Infinity JR 4	4	Hard	No Holes	N/A	0	N/A	none	N/A	10	4	Backward	111.7 Hits wall of chamber	2.54 - 5.08
5 Cordis Sones 1	4	Hard	Holes 90°	0.685	2	5.08 7.62	none	N/A	10	4	Backward	111.7 Hits wall of chamber	2.54 - 3.81

FIG. 12

Catheter			Slot Configuration				Restrictor		Flow Parameters		Reaction (Total score of 10 divided between chambers)	
Test Position	Diameter (Fr)	Material	Type	Geometry (mm)	#	Location (mm)	Material	Diameter (mm)	Volume (ml)	Rate (ml/sec)	Downstream Chamber	Upstream Chamber
First	4	Hard	Angled Holes	0.381	8	1.905 2.54	Soft	0.3302	10	8	4	6
First	4	Hard	Angled Holes	0.3302	12	1.905 2.54	Soft	0.3302	10	4	3	7
Second	4	Hard	Angled Holes	0.381	8	1.905 2.54	Soft	0.3302	10	8	6	4
Second	4	Hard	Angled Holes	0.3302	12	1.905 2.54	Soft	0.3302	10	4	4	6

FIG. 13